

For Jackie

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(4) Etching method

The optical element is formed by selectively removing and patterning a thin film using lithography and etching technologies.

The method for forming the optical element is described above. In summary, the optical element consists of at least two areas having different refractive indices. The optical element may be formed by a method of forming the two areas using two types of materials having different refractive indices, a method of forming the two areas having different refractive indices by modifying part of one type of material, or the like.

Each layer of the light-emitting device may be formed using a conventional method. A deposition method suitable for each layer of the light-emitting device is appropriately selected depending on the materials therefor. As specific examples of such a method, a vapor deposition method, spin coating method, LB method, ink jet method, and the like can be given.

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BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a perspective view schematically showing a light-emitting device according to a first embodiment.

Fig. 2 is a perspective view schematically showing a light-emitting device according to a second embodiment.

Fig. 3 is a plan view schematically showing the light-emitting device according to the second embodiment.

Fig. 4 is a cross-sectional view along the line X1-X1 shown in Fig. 3.

Fig. 5 is an enlarged cross-sectional view showing a section indicated by the symbol A shown in Fig. 4.

5 Fig. 6 is a cross-sectional view along the line X2-X2 shown in Fig. 3.

Fig. 7 is a cross-sectional view along the line Y-Y shown in Fig. 3.

Fig. 8 is a plan view showing an optical element.

10 Fig. 9 is a view showing a modification of the optical element.

Fig. 10 is a cross-sectional view schematically showing a light-emitting device according to a third embodiment of the present invention.

15 Fig. 11 is a view showing a first modification of a light-emitting section.

Fig. 12 is a view showing a second modification of the light-emitting section.

20 Fig. 13 is a view showing a third modification of the light-emitting section.

Fig. 14 is a view showing a fourth modification of the light-emitting section.

Fig. 15 is a view showing a fifth modification of the light-emitting section.

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#### DETAILED DESCRIPTION OF THE EMBODIMENTS

##### First embodiment